APARNA GUDIVADA

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Education

University of Utah, Masters in Computer Science	**Salt Lake City, UT**
CGPA: 3.6/4.0	Aug 2023 – Present
VR Siddhartha Engineering College	**Vijayawada, India**
Bachelor of Technology in Information Technology	Jul 2017- Jul 2021
CGPA: 3.6/4.0	

Skills

- Python, Java, C++, C, HTML, CSS, JavaScript, Bootstrap, PHP, Typescript, Angular, Node JS, PostgreSQL, React, DBMS, MYSQL, MongoDB, .NET, R Programming, Block Chain, Machine Learning, NumPy, Pandas, scikit-learn
- Visual Studio Code, Jupiter Notebook, Git, Android Studio, Flask

Experience

Intermountain Health   **May 2024 - Present**
Software Engineer Intern   Salt Lake City, UT

- Developed and maintained several backend services using Node.js for the Preadmission Testing (PAT) application, enhancing patient status visibility and tracking for 100+ nurses.
- Implemented robust CRUD operations and data validations for secure data management. Used PostgreSQL to optimize queries and boost database performance by 30%.
- Designed a responsive and user-friendly UI with React, significantly reducing manual task completion time for nurses by 40% and enhancing overall user experience.

Accenture   **Aug 2021 – Jul 2023**
Software Development Engineer   Hyderabad, India

- Experienced Angular Front-End Developer excelling in agile environments, streamlining processes through active client design discussions.
- Proficient in developing interactive user interfaces using HTML, CSS, Angular framework leading to a 20% improvement in user engagement and product usability.
- Led migration from AngularJS to Angular 13, resolving data binding issues and maintaining code quality. Addressed 95% of accessibility issues, improving web interface inclusivity and usability.
- Achieved 90% code coverage by implementing unit testing with Jasmine, ensuring the delivery of high-quality and reliable code.

APSAC   **May 2021– July 2021**
Research Intern   Vijayawada, India

- Collaborated with multidisciplinary team of 5 members to automate the process to precisely estimate vegetation area within a specified region, significantly enhancing efficiency and accuracy.
- Developed an optimized workflow to download Sentinel-2 satellite data via the Sentinel Hub and Sentinel Sat APIs, achieving a 30% reduction in processing time.
- Applied data preprocessing with Python libraries like NumPy and OpenCV, boosting accuracy by 25% through segmentation of multispectral images and quantification of vegetation cover.

Projects

Comparison of Feature Reduction Techniques in Remote Sensing Images

- Led a project utilizing machine learning algorithms for real-time change detection in remote sensing images, achieving a 20% improvement in accuracy through Factor Analysis, Principal Component Analysis, and K-means clustering for dimensionality reduction.

Customer Segmentation using K-means Algorithm

- Customer Segmentation for understanding target customers and analyzing the annual score and spending scores for different customers utilizing the given data set for 1000 customer data. Illustrated the segmentation process through graphical representations in Matplotlib for enhanced comprehension of customer data patterns.

E-Plastic Waste Recycling Interface

- Built an Android application in Android Studio by emphasizing the sale of recyclable plastic waste to recycling companies, incorporating a bid request feature, resulting in a 20% increase in user interaction and improved communication efficiency between customers and companies.